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Timber-frame Garden Shed

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Timber-framing is a traditional building method that uses a simple framework of heavy timber posts and beams connected with hand-carved joints. From the outside, a timber-frame building looks like a standard, stick-framed structure, but the stout, rough-sawn members give the interior the feel of an 18th-century barn or workshop.

This 8 × 10-ft. shed has the same rough-sawn timbers and basic design used in traditional timber-framing, but with joints that are easy to make. In addition to an attractive interior, the shed has a homemade skylight and a large side window that make it a bright, inviting space. If staying cool is a concern, install operable windows, or adapt the shed frame to add more windows. Adding roof vents can improve ventilation, as well.

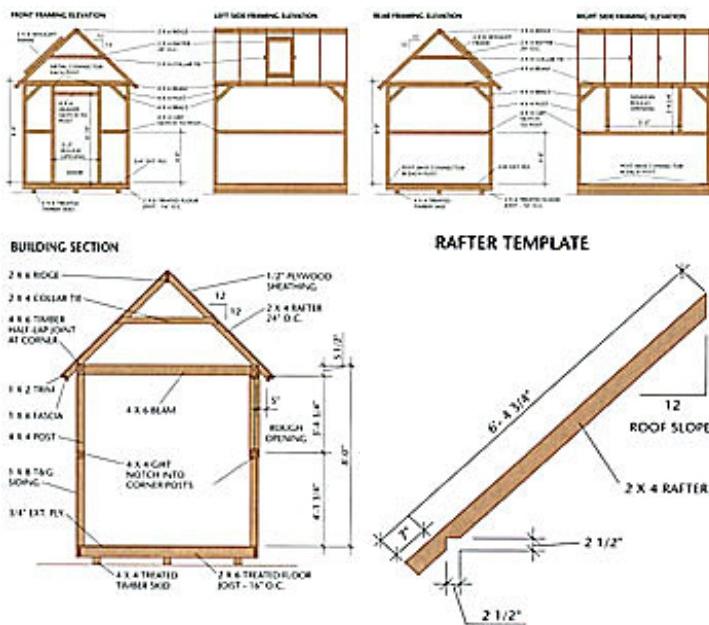
The roof frame in this project is made with standard 2 × 4s, but if you're willing to pay a little more to improve the appearance, you can use rough-cut 2 × 4s or 4 × 4s for the roof framing.

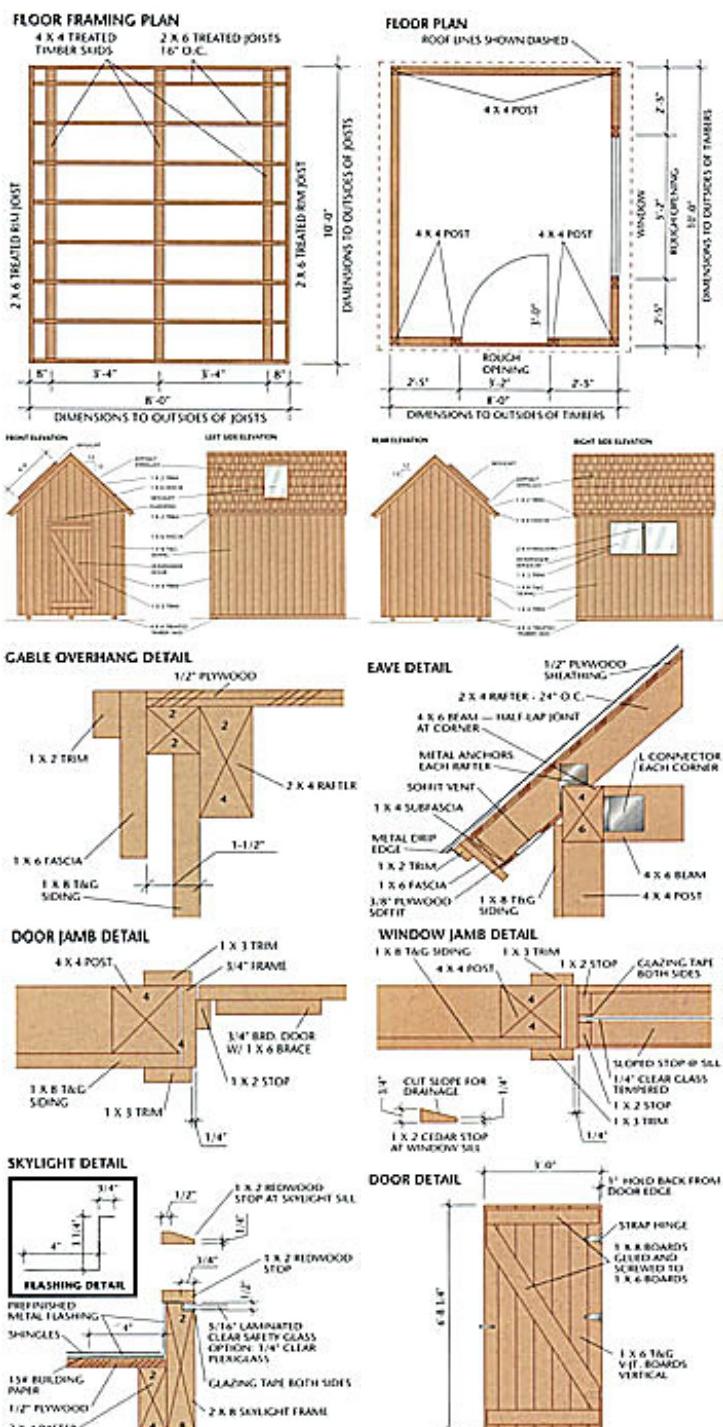
Materials		
Description	Quantity/Size	Material
Foundation		
Drainage material	25 cu. ft.	Compactible gravel
Skids	3 @ 10'-0"	4 × 4 treated timbers
Floor Framing		
Rim joists	2 @ 10'-0"	2 × 6 pressure-treated
Joists	9 @ 8'-0"	2 × 6 pressure-treated
Joist clip angles	18	3 × 3 × 3" × 18-gauge galvanized
Floor sheathing	3 sheets 4 × 8'	3/4" tongue-&groove ext.-grade plywood
Wall Framing		
Posts	6 @ 8'-0"	4 × 4 rough-sawn cedar
Window posts	2 @ 4'-0"	4 × 4 rough-sawn cedar
Girts	2 @ 10'-0", 2 @ 8'-0"	4 × 4 rough-sawn cedar
Beams	2 @ 10'-0", 2 @ 8'-0"	4 × 6 rough-sawn cedar
Braces	8 @ 2'-0"	4 × 4 rough-sawn cedar
Post bases	6, with nails	Simpson BC40
Post-beam connectors	8 pieces, with nails	Simpson LCE
L-connectors	4, with nails	Simpson A34
Roof Framing		
Rafters	12 @ 7'-0"	2 × 4
Collar ties	1 @ 10'-0"	2 × 4
Ridge board	1 @ 10'-0"	2 × 6
Metal anchors-rafters	8, with nails	Simpson H1

Gable-end blocking	4 @ 7'-0"	2 × 2
Exterior Finishes		
Siding	2 @ 14'-0", 8 @ 12'-0", 10 @ 10'-0", 29 @ 9'-0"	1 × 8 T&G V-joint rough-sawn cedar
Corner trim	8 @ 9'-0"	1 × 4 rough-sawn cedar
Fascia	4 @ 7'-0", 2 @ 12'-0"	1 × 6 rough-sawn cedar
Fascia trim	4 @ 7'-0", 2 @ 12'-0"	1 × 2 rough-sawn cedar
Subfascia	2 @ 12'-0"	1 × 4 pine
Plywood soffits	1 sheet 4 × 8'	3/4" cedar or fir plywood
Soffit vents	4 @ 4 × 12"	Louver with bug screen
Flashing (door)	4 linear ft.	Galvanized—18 gauge
Roofing		
Roof sheathing	6 sheets 4 × 8'	1/2" ext.-grade plywood
Asphalt shingles	1.7 squares	250# per square (min.)
15# building paper	140 sq. ft.	
Metal drip edge	2 @ 12'-0", 4 @ 7'-0"	Galvanized metal
Roof vents (optional)	2 units	
Roofing cement	1 tube	
Skylight		
Frame	1 @ 12'-0"	2 × 8
Glazing tape	24 linear ft.	
Stops	1 @ 12'-0"	1 × 2 clear redwood
Glass	1 piece—field measure	5/16" tempered, clear (Optional: 1/4" plexiglass, clear)
Flashing	14 linear ft.	Prefinished metal—24 gauge

Window		
Frame	4 @ 6'-0"	3/4 x 4 1/4" (actual) S4S cedar
Mullion	1 @ 4'-0"	2 x 4 S4S cedar
Stops	8 @ 6'-0"	1 x 2 S4S cedar
Glazing tape	44 linear ft.	Glazing tape
Glass	2 pieces-field measure	1/4" tempered, clear
Trim	4 @ 6'-0", 4 @ 4'-0"	1 x 3 rough-sawn cedar
Door		
Frame	2 @ 7'-0", 1 @ 4'-0"	3/4 x 4 1/4" (actual) S4S cedar
Stops	2 @ 7'-0", 1 @ 4'-0"	1 x 2 S4S cedar
Panel material	7 @ 7'-0"	1 x 6 T&G V-joint rough-sawn cedar
Z-brace	2 @ 6'-0", 1 @ 8'-0"	1 x 6 rough-sawn cedar
Strap hinges	3	
Trim	5 @ 7'-0'	1 x 3 rough-sawn cedar
Fasteners		
60d common nails	16 nails	
20d common nails	32 nails	
16d galvanized common nails	3 1/2 lbs.	
10d common nails	1 lb.	
10d galvanized casing nails	1/2 lb.	
8d galvanized box nails	1 1/2 lbs.	

8d galvanized finish nails	7 lbs.
8d box nails	1/4 lb.
6d galvanized finish nails	40 nails
3d galvanized finish nails	50 nails
1 1/2" joist hanger nails	72 nails
2 1/2" deck screws	25 screws
1 1/2" wood screws	50 screws
7/8" galvanized roofing nails	2 lbs.
3/8" x 6" lag screws	16 screws
Silicone- latex caulk	2 tubes
Construction adhesive	4 tubes





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Cordless Tools



Sander & Polisher



Two Position Cordless
Screwdriver



High Performance Rotary
Tool



3-In-1 Sander



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5 Position Drill Driver



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Performance Drill Bits



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Lawn



High

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Cordless Room Vac

String



Trimmers



Hedge



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Lawn

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Cordless Room Vac



String

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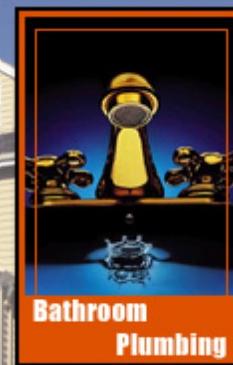
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Fill bathtubs and whirlpools at least half full of water before caulking around the edges to approximate the full tub weight. Tub shift position when filled with water; caulking when the tub is full helps ensure that the caulking seal does not stretch and pull apart when the tub is filled.

Hanging towel rods, mirrors, and other accessories, caulking seams, and sealing tile and grout are a few of the small projects that bring your bathroom remodeling project to completion.

Whenever possible, anchor accessories to wall studs or blocking for maximum holding power. If no studs or blocking are located in the area where accessories will be installed, use special fasteners, like toggle bolts or molly bolts, to anchor the accessories to wallboard or plaster walls.

Use tub & tile caulk for most bathroom sealing projects. Most tub & tile caulk is a blend of silicone and latex that offers the best features of both. Pure silicone expands and contracts with fixtures, like bathtubs, that can shift position. It is a long-lasting, effective sealant, but it is relatively expensive and cannot be painted.

Latex caulk is inexpensive and it holds paint well. It also is easy to apply in smooth, neat beads, but it breaks down more quickly than silicone, and it can trap odors and mildew. Some tub & tile caulk contains acrylic for a hard surface. Caulk of all types should be inspected yearly, and reapplied as needed.

Everything You Need:

Tools:

tape measure
jig saw with metal-cutting
blade or hacksaw
drill
caulk gun
groutfloat

Materials:

caulk
screws
sleeves and anchors
tape

Options for Attaching Bathroom Accessories



Attach accessories and hardware between wall studs by using screw sleeves or special fasteners that are attached directly to the wall surface. Plastic anchor sleeves (A), often used in ceramic tile, are inserted into pilot holes, where they expand when screws are driven. Grip-it® fasteners (B), molly bolts (C), and toggle bolts (D) provide more holding power than sleeves.

Next Steps and Related Projects:

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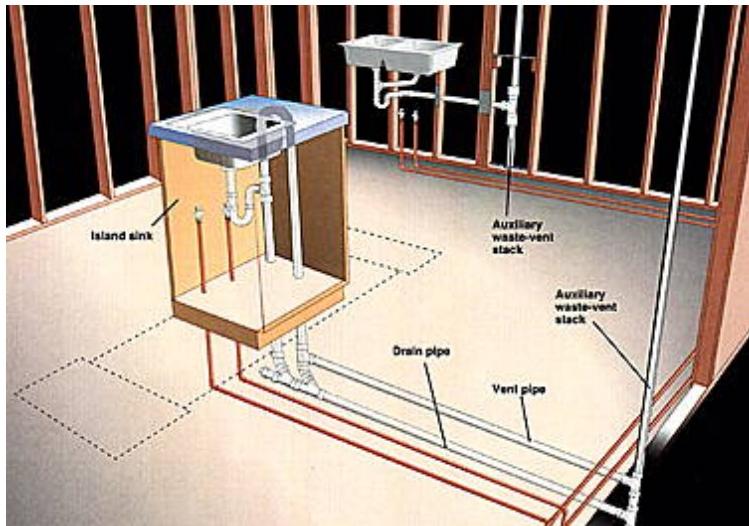
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Plumbing a Kitchen

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Plumbing a remodeled kitchen is a relatively easy job if your kitchen includes only a wall sink. If your project includes an island sink, however, the work becomes more complicated.

An island sink poses problems because there is no adjacent wall in which to run a vent pipe. For an island sink, you will need to use a special plumbing configuration known as a *loop vent*.

Each loop vent situation is different, and your configuration will depend on the location of existing waste-vent stacks, the direction of the floor joists, and the size and location of your sink base cabinet. Consult your local plumbing inspector for help in laying out the loop vent.

Our demonstration kitchen includes a double wall sink and an island sink. The 1 1/2" drain for the wall sink connects to an existing 2" galvanized waste-vent stack; since the trap is within 3 1/2 ft. of the stack, no vent pipe is required. The drain for the island sink uses a loop vent configuration connected to an auxiliary waste-vent stack in the basement.

The following information shows plumbing methods specific to a kitchen project. If you are not familiar with basic plumbing methods, find a good reference book to help you with this work.

Everything You Need:

Tools:

wire brush
drill with wire wheel
attachment
cold chisel
hand maul
paint brush
trowel

Materials:

vinyl-reinforced patching
compound
concrete caulk
sand-mix concrete

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Running cables for new electrical fixtures is easiest if wall surfaces have been removed. Make the final wiring hookups at the fixtures after wall surfaces are finished.

Follow Local Code requirements for wiring bathrooms. Reduce shock hazard by protecting the entire bathroom circuit with GFCI receptacles. Install only electrical fixtures that are U.L.-approved.

If it is not practical to remove wall surfaces, "retrofit" techniques can be used to install vent fans and other fixtures. Most wiring connections for bathroom fixtures are easy to make, but wiring configurations in electrical boxes vary widely, depending on the type of fixture and the circuit layout.

If you are not confident in your skills, have an electrician install and connect fixtures. Unless you are very experienced, leave the job of making circuit connections at the main service panel to an electrician.

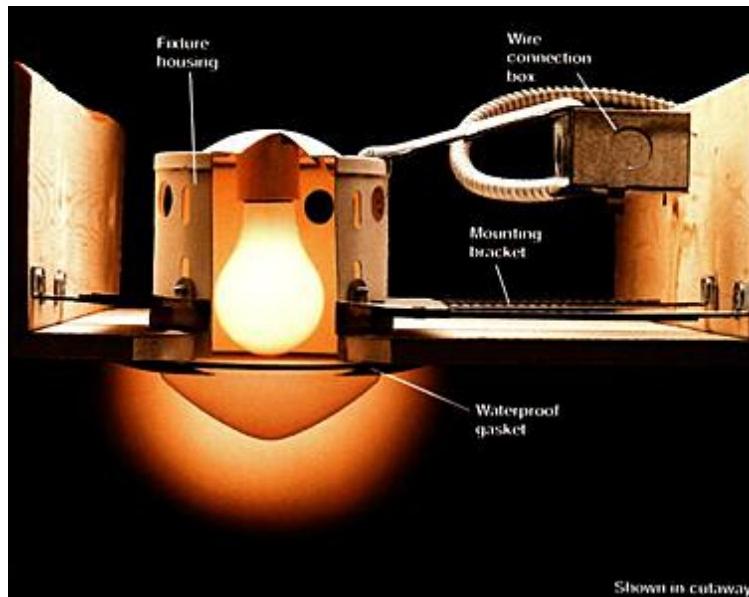
Everything You Need:

Tools:
 neon circuit tester
 wire stripper
 cable ripper
 screwdriver
 level

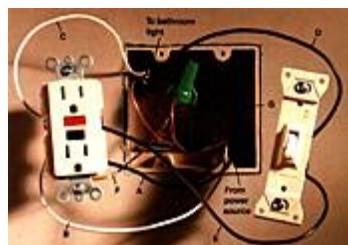
Materials:
 NM cable
 wire staples
 wire nuts
 screws

Safety Issues:

Always shut off electrical power at the main service panel, and test for power before working with wires.



Installing most bathroom lights is similar to installing lights in any other room in the house. Adding new lighting fixtures makes a bathroom safer and more inviting, and can even make bathrooms seem larger. In showers, install only vaporproof lights that have been U.L. rated for wet areas. Shower lights have a waterproof gasket that fits between the fixture and the light cover.



Install a GFCI receptacle and switch by making the following connections: black wire from power source (A) to brass screw marked LINE on GFCI; white wire from power source (B) to silver screw marked LINE; white wire to light (C) to silver GFCI screw marked LOAD; black wire to light (D) to a screw terminal on switch. Cut a short length of black wire (E), and attach one end to brass GFCI screw marked LOAD, and other end to a screw terminal on switch. Connect a bare grounding pigtail wire to GFCI grounding screw (F), and join all bare grounding wires (G) with a wire nut. Tuck wires into box, then attach switch, receptacle, and coverplate.

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Apply grout sealer to grout joints every 1-2 years to protect against water, wear, and stains. Use a sponge brush to spread the sealer and keep it off the tiles. Allow new grout to cure fully before sealing it.

Like the tile on your bathroom or kitchen walls, floor tile must be watertight. All the grout lines must be solid and full, and every tile must be free of cracks or chips. Neglecting problems can result in damage to the underlayment and subfloor, and possibly to the entire tile job.

Perhaps the greatest challenge with tile repair is matching the grout color. If you're regROUTing an entire floor, just select a color that complements the tile; if you're replacing a tile, you have to blend the new grout with the old. A good tile dealer can help you get the best color match.

Floor tile is typically bonded to the floor with a cement-based adhesive, known as *thin-set mortar*. If you find another adhesive, such as mastic, under the original tile, use the same type to install replacement tiles.

Everything You Need:

Tools:

Sponge brush
utility knife
grout saw or rotary tool
cold chisel
hammer
putty knife
notched trowel
rubber mallet
screwdriver
rounded sponge
rubber grout float

Materials:

Grout sealer
thin-set mortar
2 x 4
carpet
grout

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